What I will learn:

- -To investigate a variety of vehicles and their uses and features
- -To investigate wheels, axles and chassis
- -To be able to investigate ways of creating and decorating the body of a vehicle
- -To design a vehicle
- -To make a vehicle based on the design
- -To evaluate the design and product

 Health and Safety
 - Keep your work area and floor area clear.
 - When you are not using a needle, keep it in the same safe place
 - Report all accidents & clean up properly after yourself.
 - Walk safely and calmly around the classroom/ workshop
 - Follow the teacher's instructions correctly
 - When using a needle, keep your fingers well clear. Use a thimble where available.
 - Remove any jewellery.

<u>Diagrams and Pictures</u>

Designing

-You need to think about who your product is for — what is its purpose and who is going to use it?

Chassis

-The chassis is the frame or base on which the vehicle is built. A chassis should be strong and rigid enough to hold the vehicle.



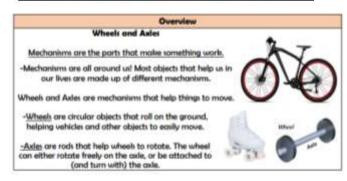
-The chassis should include axle holders. These designed so that the axles do not have too much friction against them.

Axle

 -Consider what you will make your axle from. It needs to be strong enough to hold the wheels, and fit freely in the axle holder.

Wheel

- -Consider whether your wheels will be fixed to the axle, or free.
- -If fixed, they need to be firmly attached. If not, they need a stopper to prevent them from falling off.
- -Some materials allow the wheel to move more freely on surfaces.



Examples of wheels in everyday life



Design Technology
Moving Mechanisms
Vehicles
Year 1 and 2

SUBJECT SPECIFIC VOCABULARY

Wheels and a move.	ixles are mechanisms that help things to		
Wheel	Wheels are circular objects that roll on the ground helping vehicles and other objects to easily move.		
Axle	a rod on which one or more wheels car rotate, either freely or be fixed to and turn with the axle.		
Axle holder	the component through which an axle fits and rotates.		
Chassis	the frame or base on which a vehicle is built.		
Friction	resistance which is encountered when two things rub together.		
Dowel	wooden rods used for making axles to		

hold wheels.